

Energy Leaders Roundtable

December 8, 2010

#### **COMMONWEALTH OF MASSACHUSETTS**

Deval L. Patrick, Governor Timothy P. Murray, Lt. Governor Ian A. Bowles, Secretary Phil Giudice, Commissioner

### MassEnergyInsight:

## Using MEI to Track Your Energy Use

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Municipal Efficiency Coordinator Green Communities Division

#### **Green Communities Division**

Serves as the hub for all Massachusetts cities and towns on energy matters





# **Green Communities Division Programs**& Resources for Municipalities

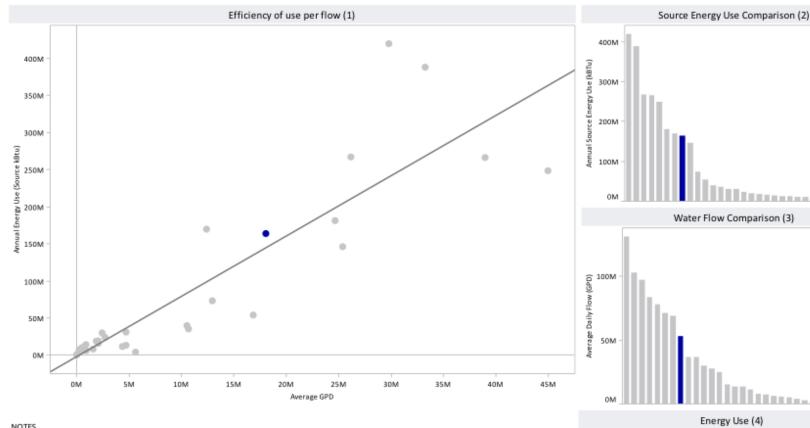
- Regional Coordinators
- Green Communities Grant and Planning Assistance Program
- MassEnergyInsight Energy Tracking Tool
- Municipal Energy Efficiency Program
- Energy Performance Contracting Technical Assistance
- ARRA Stimulus Funding
- Website filled with tools & resources for municipalities:
  - www.mass.gov/energy/greencommunities
- Email updates via listserv Sign up today by send an email to:

join-ene-greencommunities @listserv.state.ma.us





# **Energy Benchmarking Report**



#### NOTES

- (1) This scatter plot shows the efficiency of your plant compared to other major waste water treatment facilities.
- (2) This chart shows the annual source energy use in kBtu for the major waste water treatment facilities in Massachusetts. Yours is highlighted.
- (3) This chart shows how your facility compares to the other major waste water plants in regard to its average daily flow in gallons per day.
- (4) Alist of your plant's energy accounts and the associated use by type.





2008

8,845,200

2009

14,462,700

Account Number

7713636006

Fuel

Electric (kWh)



- Free online tool provided by DOER
- Currently used by 183 MA towns and 6 of 9 WTPs here today
- Automatically loads electric and gas energy consumption data (except MLPs)
- Generates energy use, cost and associated GHG reports
- Full integration with Portfolio Manager anticipated for Spring 2011



www.MassEnergyInsight.net



### What Can MEI Do for You?

- Learn about your energy use
- Monitor that energy use and associated costs
- Plan how to implement effective energy efficiency programs and measures
- Communicate your efforts to save ratepayer dollars
- Easily incorporates into and facilitates the Plan-Do-Check-Act structure





# WTP Energy Use Relative to Town Total



MMBTU History by Facility Type							
		FY 2007	FY 2008	FY 2009	FY 2010		
Building	Electric	20,296	20,381	24,675	12,014		
	Gas	15,617	15,291	18,637	3,948		
	Oil	5,881	6,737	1,814	945		
Open Space	Electric	1,046	1,050	967	456		
	Gas	4,388	4,303	8,731	2,369		
Water/Sewer	Gas	11,139	10,988	9,906	1,579		
	Oil	5,881	6,737	1,814	945		
Grand Total		64,249	65,487	66,543	22,256		

Facility Counts by Type						
	FY 2007	FY 2008	FY 2009	FY 2010		
Building	17	17	20	18		
Open Space	6	6	9	7		
Water/Sewer	9	9	9	8		
Grand Total	32	32	38	33		

This table is a count of facilities which have accounts assigned to them, broken down by Year vs. Building Category. The view is filtered to keep only Buildings, Open Space and Water/Sewer, and excludes lighting and vehicles.



# Performance (Cost) Over Time



of Energy Resources

Massachusetts
DEPARTMENT OF ENERGY RESOURCES

# Why MEI?

- DEP/DOER/EPA will be using MEI to track sectorwide energy use data in MA towards the overall energy use reduction goals of 20% at DWTPs and 25% at WWTPs
- For this to occur, the relevant accounts must be assigned to the "water/sewer" or "pumping" subcategories
- DEP/DOER are working on a proposal to generate help for WTPs to set up their MEI accounts
- DOER is working with Peregrine to publish sectorspecific reports, such as Energy Use/MGD, on MEI





# **Using MEI for Audits & Implementation**

- Electric/gas utilities may respond more quickly to audit requests if you can provide your energy use data
- Quarterly tracking can highlight seasonspecific energy efficiency opportunities
- Only true measure of energy savings from implementing energy efficiency measures is metering, however MEI can serve as a proxy, particularly for improvements to large energy uses such as pumping.





#### **How Do I Get Started?**

- Contact your DOER Regional Coordinator to register for training and obtain authorization from your town
  - Next trainings:
  - Tuesday, January 11, 2:00-3:15 pm
  - Wednesday, February 9, 10:00-11:15 am
  - Monday, March 14, 6:30-7:45 pm
- Third-parties managing WTPs can use MEI as long as properly authorized





#### **How Do I Get Started?**

- Compile a list of ALL your energy accounts, including amounts and costs for all nonelectric or gas fuels (oil, propane, etc.)
- If serviced by a MLP, contact your MLP to inform them you wish your data to be uploaded
- If using Portfolio Manager, contact Peregrine to set up data transfer





# I'm Already a MEI User, What Can I Do?

- Publicize your successes!
- Mention MEI and its usefulness to other WTPs
- Ensure that "water/sewer" or "pumping" are assigned as subcategories to all your accounts
- Send any MEI suggestions specific to WTPs to Aimee





#### **Contact Information**

- Municipal Efficiency Coordinator:
  - Aimee.Powelka@state.ma.us
- Regional Coordinators at DEP Regional Offices:
  - SERO LAKEVILLE: Seth Pickering
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